Feedback on 360 Degree Leader AZIMUTH Check Assessment Conducted at Fort Clayton, Panama

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13. SUPPLEMENTARY NOTES

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14. ABSTRACT (Maximum 200 words):

This report documents military and civilian leaders' reactions to a multi-rater assessment of their leadership behaviors. The 80 targeted leaders were commissioned and non-commission military officers, and GS-9 to GS14 civilian leaders at Fort Clayton, Panama. After completing the Leader Azimuth Check and receiving feedback, they were asked to complete a survey designed to assess 1) perceptions of trust and the fairness in the multi-rater process, 2) reported understanding of the multi-rater process, 3) beliefs about the accuracy and appropriateness of the sources of feedback and 4) self-efficacy and intentions for change in leadership behaviors. An overview of the responses to the survey are recorded in this report. Subordinates were overwhelmingly viewed as the most valuable source of feedback. Eighty three percent reported that they would use their feedback to monitor and develop their leadership. Motivation to change leadership behavior was best predicted by the extent to which leaders believed the feedback they received was new information. Trust in the confidentiality of the multi-rater process was high, as was the reported understanding in the purpose and methods of the 360. Perceptions of fairness and satisfaction were moderate to high. Perceptions of fairness and accuracy predicted satisfaction with the multi-rater process. Other predictors are mentioned in the report. Implications and recommendations are provided.

15. SUBJECT TERMS

Leader Azimuth Check, multi-rater assessment, multi-rater process

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Feedback on a 360 degree Leader AZIMUTH Check assessment conducted at Fort Clayton, Panama

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Feedback on a 360 degree Leader AZIMUTH Check assessment conducted at Fort Clayton, Panama

Introduction

In September of 1998, the Quality Improvement Office of the Theater Support Brigade at Fort Clayton, Panama first contacted the U.S. Army Research Institute at Fort Leavenworth, KS requesting information pertaining to the Leader Azimuth Check instrument. This instrument is based on Army leadership doctrine and is designed to assess leadership behaviors from the perspective of self, subordinates, peers and superiors (See Appendix A). The Quality Improvement Office under Colonel Richard Thomas also requested assistance in the processing and interpretation of 360 degree feedback assessment for their military and civilian employees. The U.S. Army Research Institute responded by agreeing to process data from the Leader Azimuth Check instrument and to provide the interpretation and counseling of the feedback to the leaders who had been selected for assessment.

ARI mailed the surveys to Fort Clayton in October 1998. The Quality Improvement Office was responsible for determining the subordinate, peer, and superior raters for each targeted leader and for distributing the surveys. These individuals were given oral and written instructions for completing the multi-rater assessment. Subsequent inquiries indicated that some bilingual civilian subordinate raters had difficulty with the instructions and the language used in the survey (particularly the reverse coded items, i.e., the undesirable behaviors). It should also be noted that surveys were completed in the context of a 100% drawdown, with most participants expecting to be working somewhere else by July of 1999. Surveys were completed by November 10th and mailed back to ARI for analysis.

Thirty seven commissioned and non-commissioned military officers and approximately 40 civilians completed the Leader Azimuth Check. Generally one superior, at least 2 peers and at least 2 subordinates (in some cases as many as seven peers and six subordinates) also completed the Azimuth for the targeted leader. This feedback was processed and interpreted in December 1998. Not all leaders were available for feedback interpretation (due to temporary duty travel, or recent change in duty station).

Finally, the Quality Improvement Office distributed a follow-up survey intended to assess perceptions about the multi-rater process. These were completed anonymously. The duration of time between feedback interpretation of Azimuth results and the follow-up survey varied. The follow-up was designed to assess 1) perceptions of trust and fairness in the multi-rater process, 2) understanding of the multi-rater process, 3) beliefs about the accuracy and appropriateness of the categorical source of feedback, and 4) self-efficacy and intentions for change in leadership behaviors. (See Appendix B). Due to holiday breaks and TDYs, the follow-up surveys were collected at varying times by the Quality Improvement Office. In January 1999, a total of 54 completed follow-up surveys were received and analyzed by ARI.

Targeted Leaders	Rank and Grad	e Count
Commissioned (Officers	
Colonel		1
LTC		7
Major		9
Captain		7
Non-commissioned		
Chief Warrant O	fficer 4	2
Command Sergea	nt Major	3
First Sergeant		8
**Civilian Leaders	_	40

Interesting findings with Azimuth follow-up survey

Subordinates were overwhelmingly viewed as the most valuable source of feedback.

Responses in the follow-up survey indicate that subordinates feedback was the <u>most valuable</u> source of information. A higher percentage of targeted leaders (58%) viewed their subordinates as the most valuable source of information as compared to the 10% who believed superiors and 6% who believed peers were the most valuable source of information.

Subordinates were viewed as an <u>appropriate</u> source for information concerning leadership skills by 93% of the targeted leaders. Superiors were also viewed as appropriate source of information by 92%, however peer feedback was only deemed appropriate by 63% of respondents.

In terms of the accuracy of assessment, 82% believed their subordinates' feedback was an accurate reflection of their leadership. Eighty three percent also believed that their superiors feedback was accurate whereas, only 65% believed peer feedback was accurate.

These data can be interpreted in at least two ways. On the one hand, a number of people have questioned the appropriateness of a multi-rater assessment process within the military. This argument is that encouraging subordinates to assess their superiors may be detrimental to discipline and order. On the other hand, results suggest that at least within this organization, subordinate feedback is not a problem. However, we must remember that over half of the participants (and an unknown proportion of the follow-up respondents) were civilians.

A second interpretation drawn from these data is that positive responses to subordinate feedback (and the somewhat indifferent reception of feedback from other sources) is an accurate reflection of the structure of this organizational unit. Virtually all targeted leaders received assessments from one superior. In the feedback sessions, targeted leaders showed the least interest in superior's feedback; many said "no surprises there." Additionally, there were indications of inflated (non-informative) ratings from superiors compared to other sources. Perhaps targeted leaders are accustomed to mostly positive ratings from superiors, as anything else is unusual given the evaluative setting in which ratings are usually received. Targeted leaders also received input from at least two peers, however, many commented that their peers could not be and were not aware of their daily routines and behaviors due to the diversity in duties and locations. Thus, the input from subordinates, which is not usually readily available was received with the most interest.

Motivation to change leadership behaviors

Between 76% and 79% of respondents reported that participating in the 360 assessment has motivated them to re-examine/change their leadership behavior (depending on how the question was asked). Eighty-three percent report that they will use their feedback to monitor and develop their leadership. Most leaders (83%) felt that there were resources readily available to assist them in self-development. Eighty- three percent also felt capable of implementing the changes which the feedback indicated were necessary, and 83% reported that their current working climate allowed for self development.

Motivation to change was best predicted (using regression analyses) by the extent to which leaders believed the feedback they received was new information. Similarly, those who

deemed feedback to be valuable were more likely to be motivated to change. A third good predictor of motivation to change came from beliefs in one's own ability to implement change (self-efficacy). Finally, 96% of respondents reported understanding how the feedback could be used for further self-development.

Results concerning acceptance of 360

During feedback sessions most leaders seemed receptive and motivated to learn from the feedback. Analysis of the follow-up survey indicated that satisfaction with the multirater process was best predicted by perceptions of fairness, perceptions of accuracy in feedback and an understanding of methods used to collect and report feedback. As expected, there were positive correlations between perceptions of fairness and satisfaction and between perceptions that feedback was accurate and satisfaction. However, the direction of the relation between understanding and satisfaction was rather counterintuitive. We found that higher reported understanding of the multi-rater process was associated with less satisfaction with the 360 process. The particular process or aspect of assessment that led to the lower satisfaction for these individuals is unknown. Nonetheless, most respondents understood how a multi-rater system works and believed it to be fair.

- 76% agreed that 360's are a fair way to assess leadership
- 78% satisfied with 360 process
- 82% felt the concept of multi-rater assessments have potential for Army use
- 91% trusted the confidentiality of the process
- 94% understood the methods for gathering data and figuring averages
- 96% reported adequate knowledge of the 360 process, as a whole

Due to time constraints, we were not able to assist targeted leaders in developing actions plans, however most research indicates the importance of setting goals and following through in this manner. Leaders were advised to follow-up by reviewing their feedback, communicating with those who had provided feedback, and developing specific plans to improve identified developmental needs.

Ideally, a follow-up several months after the initial feedback is recommended. However, since leaders at Fort Clayton are also dealing with draw-down issues, this follow-up was not a viable option for many. Nevertheless, at least two officers requested materials for follow-up.

Implications and Recommendations

The Theater Support Brigade took advantage of a tool that has the potential to initiate and optimize self-development. To leverage this self-development it is recommended that materials (perhaps a reading list) be made available to assist targeted leaders in achieving their developmental goals. Additionally, the chain of command should develop and monitor specific action plans. It is also strongly recommended that more information regarding the purpose and process of the multi-rater assessment be provided up front to all who participate in the process. Finally, all efforts to follow up are encouraged and assessments of the effectiveness of such a process should be conducted.

Appendix A



Leader AZIMUTH Check:
A Leader Self-Assessment Instrument

Fort Leavenworth Research Unit U.S. Army Research Institute

PURPOSE: This questionnaire has been designed by the U.S. Army Research Institute and the Center for Army Leadership to obtain information in support of leader self-development. The items in the questionnaire and the feedback based on the items are consistent with current and emerging Army Leadership Doctrine.

CONFIDENTIALITY: The individual ratings and the overall results are provided to the person who is being rated; the information is not provided to anyone in the officer's rating chain. If you are providing ratings on someone else, your input is anonymous.

PT59-96 3/14/97

Leader AZIMUTH Check

Introduction

The Army places special emphasis on self-development to enhance the leadership skills of military and civilian leaders. As part of self-development, it is important for individuals to become aware of their own strengths and weaknesses. You are asked to provide input on the strengths and weaknesses of the designated officer. AZIMUTH provides each person with feedback based on a comparison of their own self-perceptions and others' perceptions of them. This information is needed from you in order to provide complete and high quality information for the rated individuals. YOUR VOLUNTARY PARTICIPATION IS NEEDED. You are encouraged to answer all questions, but failure to respond to any item will not result in any penalty.

The identification numbers and names on the AZIMUTH answer sheets are provided to identify the person being rated. When you are rating someone else your rating is ANONYMOUS; no record is kept of who rates whom. However, if you do not respond to all the questions, then the person being assessed will receive incomplete feedback. If you are doing a self-assessment, rating yourself, you need to be aware that the self-assessment cannot be anonymous; we need to be able to identify you in order to provide you feedback. Only persons involved in collecting or preparing the information for analysis will have access to completed AZIMUTH forms. Any reports of these data will contain only group statistics.

Instructions

If you are using this form for self-assessment: 1) Be sure to read and sign the Privacy Act Statement before proceeding. 2) Fill in your own name and ID number on all mark-sense response forms to be completed by yourself and others. 3) Complete one self form by marking the bubbles which best indicate how well each item describes you.

If you are rating someone else: The person being rated should have already filled in their name and ID number section. Please: 1) Skip the Privacy Act Statement section. 2) Fill in a bubble at the top of page 3 to indicate whether the person being rated is your peer, subordinate or superior. 3) Mark the bubbles which best indicate how well each item describes the person you are rating.

PRIVACY ACT STATEMENT:

Public Law 93-573, called the Privacy Act of 1974, requires that you be informed of the purpose and uses to be made of any information collected.

The Department of the Army may collect the information requested in this questionnaire under the authority of 10 United States Code 137. Providing information in this questionnaire is voluntary. Failure to respond to any particular questions will not result in any penalty. However, if you are providing an assessment of yourself, then failure to provide your ID number will prevent you from receiving feedback for your leadership self-development.

The primary use of the information collected will be to provide the person being rated with feedback for his/her leadership self-development. The aggregate data will also be used by the U. S. Army Research Institute for research and development purposes. Your responses will be held in strict confidence. No responses or summaries, whole or in part, will become a part of any individual's personnel file. This information will not be used by anyone for an evaluation of the person being assessed - it will be used to provide him/her with feedback for self-development.

evaluation of the person being assessed - it will l self-development.	be used to provide him/her with feedback for
(If you are providing an assessment of someone	else, then please DO NOT enter your name or signature.)
PRINT your name here:	Date:
I authorize use of this information as stated above:	(Sign Your Name Above)

	lde	ntific	ation	Nun	nber				
Name of person being rated:				e ja Mariakin e				cil only. pallpoint, or felt tip pe s that fill the respons	
	•				<u>@@</u>			s that fill the respons y marks you wish to	
	1				0		Make no stray m	-	g
MARK THIS ITEM FIRST					@@				
The Devoes Being Betad	1				(3) (3) (4) (4)		CORRECT:	INCORRECT	
The Person Being Rated is my:	1				() () () ()				
Self					66		A. A.	Have no	ot observed
O Peer					99			Extremely Poor De	
○ Subordinate					33			Very Poor Desc	-
Superior					9 9		Slid	ghtly Poor Descript	-
•						ing (se Antagogy		lly Good Descriptio	
In comparison with others I h								Good Description	•
items below describe the pers	son bein	g ra	ted a	SIN	dicate	a.	Extremely Go	ood Description	
Communicating	,								
 Does not provide 									
Explains own ide			ey are	eas	sily un	derst	ood.		
Keeps others well	ll informe	ed.							0000
4. Listens well.									
Tells it like it is.									
6. Writes poorly.								000	
Decision Making									
7. Delays decisions						. 1			
8. Generates innova									
9. Ignores information						iai as	sumptions.		
10. Makes sound dec			-			tion o	alla for it		
11. Wiiling to revisit a Motivating	decision	I WIII	enne	*VV 111	liulilia	LIOIT C	alls for it.	0.00	
12. Creates a suppor	tive work	(Anv	ironn	nant				000	
13. Disciplines in a fir						ıer			
14. Inspires people to				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · · ·				
15. Often acknowledg				nce	of oth	ers.			deceo
16. Sets clear perform								000	
Developing									
17. Does not encoura	ge profe	ssio	nal gi	rowtl	h.				
18. Is an effective tea	cher.		_				•		
Often uses couns				erfo	rmand	e fee	dback.		
Provides opportur									
Seldom delegates	s authorit	ty.						000	
Building									a a state
Actively participat							•		
23. Encourages coop					embe	rs.			
24. Encourages organ							1 4		
, 25. Focuses the orga						omplis	snment.		
26. Treats others as v	/aiuable	team	ımer	nper	5.			000	
Learning					C 11.	1 <i>-</i>			0000
27. Becomes defensive							zation/unit		
28. Encourages open 29. Helps organization									
30. Seems to be reali									
31. Willingly accepts				J-J-11					
Planning and Organizing									
32. Anticipates how d	ifferent n	lans	will l	ook	when	execi	uted.	000	
33. Develops effective									0000
34. Leaves key event				5					
35. Sets clear prioritie									0000
36. Unwilling to modif		l plai	n whe	en ci	rcums	tance	es change.		
•				,					•

ក្នុងប្រើប្រជាជនថា សម្រើសប្រែក្រុង តែសម្រែចការបាន ប្រើសម្រើស្រីក្រុង ក្នុងស្វេចក្រុង ក្នុងស្រុកបានការបានសម្រាស់ សមានការបានសមានក្រុងប្រែក្រុងប្រការបានក្រុងប្រការបានការបានការបានការប ក្រុងប្រក្សាសាស្រ្តការបានការបានការបានការបានការបានការបានការបានការបានការបានការបានការបានការបានការបានការបានការបានក Have Not Observed

Extremely Poor Description

Very Poor Description

Slightly Poor Description

Slightly Good Description

Very Good Description

Extremely Good Description

Executing	
37. Completes assigned missions to standard.	000000
38. Does not meet mission timelines.	000000
39. Does whatever is necessary (within ethical limits) to complete the mission.	000000
40. Monitors execution of plans to identify problems.	000000
41. Refines plans to exploit unforeseen opportunities.	000000
Assessing	
42. Accurately assesses the organization/unit's strengths.	000000
43. Accurately assesses the organization/unit's weaknesses.	000000
44. Makes organizational changes for no apparent reason.	000000
45. Rarely conducts after-action reviews.	000000
46. Takes time to find out what subordinates are doing.	000000
Respect	
47. Actively supports equal opportunity for all persons.	000000
48. Creates a climate of fairness in the organization/unit.	000000
49. Excludes some from team activities.	000000
50. Treats others with respect.	000000
Selfless Service	
51. Claims credit for others' work.	000000
52. Considers the needs of own and others' family members.	0000000.
53. Places the welfare of the organization before own personal gain.	000000
54. Takes advantage of others to advance own career.	000000
55. Takes privileges not allowed others.	000000
Integrity	
56. Behaves with questionable ethics.	000000
57. Demonstrates moral courage (does what is right).	000000
58. Is not sensitive to the ethical impacts of decisions.	000000
59. Is trustworthy.	000000
60. Sets the proper ethical example for others.	
Emotional Stability	
61. Does not display extreme anger.	
62. Exhibits wide mood swings.	000000
63. Maintains calm disposition under stress.	000000
64. Possesses an even temperament.65. Seems to behave unpredictably.	000000
Other	000000
66. Demonstrates appropriate soldier skills. 67. Is a clear thinker.	000000
	000000
68. Is effective on the job. 69. Maintains effective interpersonal relations with others.	000000
70. Physically fit for the job.	000000
71. This person is a good leader	000000
71. This person is a good reader 72. This person is someone I would follow into combat.	000000
3. The questions contained in the AZIMUTH were clear and understandable.	
○ Strongly ○ Disagree ○ Slightly ○ Slightly ○ Ag	ree Strongly
Disagree Disagree Agree	Agree
4. The questions contained in the AZIMUTH measure elements critical to excellence in lead	dership.
○ Strongly ○ Disagree ○ Slightly ○ Slightly ○ Ag	ree Strongly
Disagree Disagree Agree	Agree
5. I am comfortable with the confidentiality of my answers using this procedure.	
○ Strongly ○ Disagree ○ Slightly ○ Slightly ○ Ag	
Disagree Disagree Agree	Agree
	01044
	21344

Appendix B

The Leader AZIMUTH Check Follow-up Survey

MARKING INSTRUCTIONS

- Use a No. 2 pencil only.
- Do not use ink, ballpoint, or felt tip pens.
- Make solid marks that fill the response completely.
- Erase cleanly any marks you wish to change.

CORRECT: ● INCORRECT: ✓ X •

The purpose of this questionnaire is to obtain the participants' assessment of the multi-rater assessment process. Your responses to this survey are anonymous. Your responses are an important source of feedback for the Army 360 Assessment Initiative. Please rate the extent to which you agree or disagree with the following statements using the scale given at the right.

	Strongly Disagree
•	Disagree
	Agree
	Strongly Agree
•	

- 1. The multi-rater feedback process is a fair way to assess my leadership abilities.
- 2. I am satisfied with the multi-rater feedback process.
- 3. I trust the confidentiality of the multi-rater feedback process.
- 4. I believe the items in the Leader AZIMUTH Check addressed skills relevant to my job.
- 5. I believe that the feedback I received from my subordinates is accurate.
- 6. I believe that the feedback I received from my peers is accurate.
- 7. I believe that the feedback I received from my superiors is accurate.
- 8. I believe that my subordinates are an appropriate source of information concerning my leadership abilities.
- 9. I believe that my peers are an appropriate source of information concerning my leadership abilities.
- 10. I believe that my superiors are an appropriate source of information concerning my leadership abilities.
- 11. Participation in this feedback process has motivated me to re-examine my leadership skills.
- 12. I intend to use the feedback I received to monitor and develop any behaviors identified as developmental areas.
- 13. I believe that there are resources readily available to me to improve my leader skills.
- 14. I believe that I can implement the changes which my feedback indicates are necessary for becoming a better leader.
- 15. I believe that my working climate allows for the self-development of leadership behaviors.
- 16. I have an adequate knowledge and understanding of the mult-rater feedback process.
- 17. I understand how multi-rater feedback can be used for self-development.
- 18. I understand the methods used for gathering data and determining the scores in my feedback.

Good Bad	Angry Satisfied	Pleasantly Surprised Apprehensive	Other
Comments:			

Please continue responding to the questions by marking the oval next to the response that most closely approximates your opinion.

20. The 360 report provided an accurate assessment of my leadership:

Strongly Agree

Agree

Disagree

Strongly Disagree

21. The 360 Feedback Interpretation Booklet was:

Very helpful - greatly contributed to my understanding of the 360 report.

Somewhat helpful - made some contribution to my understanding of the 360 report.

Not very helpful - did not contribute to my understanding of the 360 report.

No help at all - confused me in attempting to understand the 360 report.

I did not receive a booklet.

22. The source of 360 assessment feedback I valued the most was provided by:

Superiors.

Peers.

Subordinates.

all ratings were equally valued.

not able to compare (only had results from one source).

23. The information I received from the 360 Assessment report was:

A great deal of new information about my leadership.

Some new information about my leadership.

A few interesting findings, but little new information about my leadership.

Nothing that I did not already know about my leadership

24. The information I received from the 360 Assessment report was:

Extremely valuable.

Valuable.

Of limited use.

Of no use.

25. To what extent does the 360 Assessment Report motivate you to change your behavior? Provides a great deal of motivation to change my leadership behavior.

Provides some motivation to change my leadership behavior.

Provides no motivation to change my leadership behavior.

The 360 assessment did not indicate that I should change my leadership behavior.

26. Aside from any administrative problems, the concept of 360 has:

no potential for the Army.

limited potential for the Army.

some potential for the Army.

great potential for the Army.

Appendix C

Panama data - Perceptions of Multi-rater Process Means, Standard deviations, and range

Descriptive Statistics

					Std.
	N	Minimum	Maximum	Mean	Deviation
RFAIR	54	1.00	4.00	2.7593	.5807
RSATIS	54	1.00	4.00	2.7407	.5887
RTRUST	53	1.00	4.00	3.1321	.6213
RRELEV	54	1.00	4.00	3.0000	.7004
RSUBACC	54	1.00	4.00	2.8889	.6344
RPACC	54	1.00	4.00	2.6296	.7083
RSUPACC	53	1.00	4.00	2.9811	.6931
RSUBAPP	54	1.00	4.00	3.2037	.6835
peer appropriate	54	1.00	4.00	2.6852	.7968
superior appropriate source	52	1.00	4.00	3.1538	.6066
motivated to re-examine	54	1.00	4.00	2.8333	.6659
use fdbk to monitor	54	1.00	4.00	2.9259	.6399
resources readily available	54	1.00	4.00	3.0000	.5828
can implement change	54	1.00	4.00	2.9630	.6132
working climate allows change	54	1.00	4.00	3.0000	.6443
adequate knowledge of process	54	2.00	4.00	3.1481	.4517
fdbk can be used for self-devel	53	2.00	4.00	3.1698	.4697
understand methods for data collection	53	2.00	4.00	3.0566	.4121
accurate assess. of leader skills	53	.00	3.00	1.6415	.6532
info I rcvd was new	54	.00	3.00	1.4815	.7201
info rcvd was valuable	54	.00	3.00	1.7222	.5961
360 motivate to change	54	.00	3.00	1.7593	.6711
potential of 360 for army	54	.00	3.00	1.0185	.7646
Valid N (listwise)	48				

				,		
		RFAIR	RSATIS	RTRUST	RRELEV	RSUBACC
RFAIR	Pearson Correlation	1.000	.752**	.197	.557**	.336*
	Sig. (2-tailed)		.000	.158	.000	.013
	N	54	54	53	54	54
RSATIS	Pearson Correlation	.752**	1.000	.149	.503**	.578*
	Sig. (2-tailed)	.000	•	.288	.000	,000
	N	54	54	53	54	54
RTRUST	Pearson Correlation	.197	.149	1.000	.408**	.183
	Sig. (2-tailed)	.158	.288	•	.002	.189
	N	53	53	53	53	53
RRELEV	Pearson Correlation	.557**	.503**	.408**	1.000	.340*
72	Sig. (2-tailed)	.000	.000	.002		.012
	N ·	54	54	53	54	54
RSUBACC	Pearson Correlation	.336*	.578**	.183	.340*	1.000
	Sig. (2-tailed)	.013	.000	.189	.012	
	N	54	54	53	54	54
RPACC	Pearson Correlation	.513**	.399**	016	.304*	009
	Sig. (2-tailed)	.000	.003	.912	.025	.947
	N	54	54	53	54	54
RSUPACC	Pearson Correlation	.178	.081	.365**	.275*	.038
1,0017,00	Sig. (2-tailed)	.202	.563	.008	.047	.785
	N	53	53	52	53	53
RSUBAPP	Pearson Correlation	.459**	.556**	.384**	.552**	.532*
NOODALL	Sig. (2-tailed)	.000	.000	.005	.000	.000
	N	54	54	53	54	54
peer appropriate	Pearson Correlation	.363**	.506**	.318*	.338*	.265
peer appropriate	Sig. (2-tailed)	.007	.000	.020	.012	.052
	N	54	.000	53	54	54
	Pearson Correlation	.438**	.387**	.511**	.515**	.346*
superior appropriate source		.001	.005	.000	.000	.012
	Sig. (2-tailed) N		.003	52	52	52
C. t. d	Pearson Correlation	52	.225	.101	.243	134
motivated to re-examine		.236	.103	.473	.077	.334
	Sig. (2-tailed)	.086	l l	53	54	.554
	N Dogradation	54	54		.421**	.026
use fdbk to monitor	Pearson Correlation	.459**	.399**	.217	.002	.853
	Sig. (2-tailed)	.000	.003	.119	.002	.653
	N Completion	54	54	53	.416**	.357**
resources readily available	Pearson Correlation	.279*	.330*	.421**	3	.008
,	Sig. (2-tailed)	.041	.015	.002	.002	
	N	54	54	53	54	54
can implement change	Pearson Correlation	.345*	.443**	.413**	.527**	.135
	Sig. (2-tailed)	.011	.001	.002	.000	.331
	N O Latin	54	54	53	54	54
working climate allows	Pearson Correlation	.101	.199	.238	.167	.277*
change	Sig. (2-tailed)	.468	.149	.086	.227	.043
	N	54	54	53	54	54
adequate knowledge of	Pearson Correlation	077	137	.146	.179	073
process	Sig. (2-tailed)	.579	.325	.297	.196	.599
	N	54	_54	53	54	54

		RFAIR	RSATIS	RTRUST	RRELEV	RSUBACC
fdbk can be used for	Pearson Correlation	.216	.154	.131	.463**	.065
self-devel	Sig. (2-tailed)	.121	.270	.355	.000	.643
	N	53	53	52	53	53
understand methods for	Pearson Correlation	017	174	.050	.071	194
data collection	Sig. (2-tailed)	.902	.214	.724	.613	.164
·	N	53	53	52	53	53
accurate assess. of leader	Pearson Correlation	.671**	.772**	.169	.541**	.385*
skills	Sig. (2-tailed)	.000	.000	.231	.000	.004
	N	53	53	52	53	53
info I rovd was new	Pearson Correlation	.147	.211	019	.150	.037
and riova was now	Sig. (2-tailed)	.289	.126	.895	.280	.792
	N	54	54	53	54	54
info rcvd was valuable	Pearson Correlation	.457**	.490**	.205	.497**	.017
mo lova was raidasis	Sig. (2-tailed)	.001	.000	.141	.000	.905
	N	54	54	53	54	54
360 motivate to change	Pearson Correlation	.284*	.317*	.170	.161	.113
300 montate to only	Sig. (2-tailed)	.037	.020	.224	.246	.415
	N	54	54	53	54	54
potential of 360 for army	Pearson Correlation	542**	660**	296*	564**	385*
potential of occ for alling	Sig. (2-tailed)	.000	.000	.031	.000	.004
	N	54	54	53	54	54

		l i				ouporior.
		RPACC	RSUPACC	RSUBAPP	peer appropriate	superior appropriate source
RFAIR	Pearson Correlation	.513**	.178	.459**	.363**	.438*
	Sig. (2-tailed)	.000	.202	.000	.007	.001
	N N	54	53	54	54	52
RSATIS	Pearson Correlation	.399**	.081	.556**	.506**	.387**
ROATIO	Sig. (2-tailed)	.003	.563	.000	.000	.005
	N	54	53	54	54	52
RTRUST	Pearson Correlation	016	.365**	.384**	.318*	.511**
KIKOSI	Sig. (2-tailed)	.912	.008	.005	.020	.000
	N	53	52	53	53	52
RRELEV	Pearson Correlation	.304*	.275*	.552**	.338*	.515**
RRELEV		.025	.047	.000	.012	.000
	Sig. (2-tailed) N	4 (.000	54	52
POLIDACO	Pearson Correlation	54	53		.265	.346*
RSUBACC		009	.038	.532**	.052	
	Sig. (2-tailed)	.947	.785	.000		.012
25100	N Consolation	54	53	54	.592**	52
RPACC	Pearson Correlation	1.000	.141	.159		.228
	Sig. (2-tailed)	_:	.314	.251	.000	.103
	N	54	53	54	54	52
RSUPACC	Pearson Correlation	.141	1.000	.129	.127	.424**
	Sig. (2-tailed)	.314		.357	.364	.002
	N	53	53	53	53	51
RSUBAPP	Pearson Correlation	.159	.129	1.000	.432**	.492**
	Sig. (2-tailed)	.251	.357		.001	.000
	N	54	53	54	54	52
peer appropriate	Pearson Correlation	.592**	.127	.432**	1.000	.523**
	Sig. (2-tailed)	.000	.364	.001		.000
	N	54	53	54	54	52
superior appropriate source	Pearson Correlation	.228	.424**	.492**	.523**	1.000
	Sig. (2-tailed)	.103	.002	.000	.000	
	N	52	51	52	52	52
motivated to re-examine	Pearson Correlation	.307*	.199	.325*	.255	.066
	Sig. (2-tailed)	.024	.152	.017	.063	.642
	N	54	53	54	54	52
use fdbk to monitor	Pearson Correlation	.230	.169	.337*	.175	.179
	Sig. (2-tailed)	.095	.228	.013	.205	.204
	N	54	53	54	54	52
resources readily available	Pearson Correlation	.183	.094	.379**	.406**	.345*
	Sig. (2-tailed)	.186	.502	.005	.002	.012
	N	54	53	54	54	52
can implement change	Pearson Correlation	.185	.312*	.288*	.207	.378**
yan mipiement enange	Sig. (2-tailed)	.180	.023	.034	.132	.006
	N	54	. 53	54	54	52
working climate allows	Pearson Correlation	041	.341*	.129	.184	.260
change	Sig. (2-tailed)	.767	.012	.354	.183	.063
J-	N	54	53	54	54	52
adequate knowledge of	Pearson Correlation	.116	.009	038	.237	.233
orocess	Sig. (2-tailed)	.405	.948	.782	.085	.097
	Land. Letternical I	.400	.5-0	.702	54	52

		RPACC	RSUPACC	RSUBAPP	peer appropriate	superior appropriate source
fdbk can be used for	Pearson Correlation	.244	.081	.242	.242	.152
self-devel	Sig. (2-tailed)	.078	.566	.080	.081	.288
	N	53	52	53	53	51
understand methods for	Pearson Correlation	.284*	.146	.030	.120	.144
data collection	Sig. (2-tailed)	.039	.303	.833	.391	.312
	N	53	52	53	53	51
accurate assess. of leader	Pearson Correlation	.381**	.261	.510**	.483**	.394*
skills	Sig. (2-tailed)	.005	.062	.000	.000	.004
	N	53	52	53	53	51
info I rcvd was new	Pearson Correlation	.171	.058	.180	.171	038
mio i iota mae nem	Sig. (2-tailed)	.216	.680	.192	.218	.791
	N	54	53	54	54	52
info rcvd was valuable	Pearson Correlation	.333*	.310*	.373**	.329*	.230
mo tota tractalists	Sig. (2-tailed)	.014	.024	.005	.015	.101
	N	54	53	54	54	52
360 motivate to change	Pearson Correlation	.325*	.158	.150	.244	.095
goo moavate to onange	Sig. (2-tailed)	.017	.258	.279	.076	.504
	N	54	53	54	54	52
potential of 360 for army	Pearson Correlation	335*	183	585**	486**	477*
hararray at any rest area.	Sig. (2-tailed)	.013	.191	.000	.000	.000
	N	54	53	54	54	52

		mativeted to	use fdbk to	resources readily	can implement
` 		motivated to re-examine	monitor	available	change
RFAIR	Pearson Correlation	.236	.459**	.279*	.345*
	Sig. (2-tailed)	.086	.000	.041	.011
	N	54	54	54	54_
RSATIS	Pearson Correlation	.225	.399**	.330*	.443*
	Sig. (2-tailed)	.103	.003	.015	.001
	N	54	54	54_	54
RTRUST	Pearson Correlation	.101	.217	.421**	.413**
	Sig. (2-tailed)	.473	.119	.002	.002
	N	53	53	53	53
RRELEV	Pearson Correlation	.243	.421**	.416**	.527**
	Sig. (2-tailed)	.077	.002	.002	.000
	N.	54	54	54	54
RSUBACC	Pearson Correlation	134	.026	.357**	.135
Noobacc	Sig. (2-tailed)	.334	.853	.008	.331
	N	54	54	54	54
RPACC	Pearson Correlation	.307*	.230	.183	.185
RPACC	Sig. (2-tailed)	.024	.095	.186	.180
	N	54	54	54	54
RSUPACC	Pearson Correlation	.199	.169	.094	.312*
RSUPACC	Sig. (2-tailed)	.152	.228	.502	.023
	N	53	53	53	53
DOLLDADD	Pearson Correlation	.325*	.337*	.379**	.288*
RSUBAPP ,		.017	.013	.005	.034
	Sig. (2-tailed)	54	.013	.003	54
	N Pearson Correlation	.255	.175	.406**	.207
peer appropriate		.063	.205	.002	.132
	Sig. (2-tailed)	.003	.205	54	54
	N Pearson Correlation		.179	.345*	.378**
superior appropriate source		.066	.204	.012	.006
	Sig. (2-tailed)	.642	.204	52	52
	N Constation	52		.097	.447**
motivated to re-examine	Pearson Correlation	1.000	.635**		.001
	Sig. (2-tailed)	_ ;	.000	.484 54	54
	N ·	54	54	.354**	.714**
use fdbk to monitor	Pearson Correlation	.635**	1.000	1	
	Sig. (2-tailed)	.000		.009	.000
	N	54	54	54	54
resources readily available	Pearson Correlation	.097	.354**	1.000	.528**
1	Sig. (2-tailed)	.484	.009		.000
	N	54	54	54	54
can implement change	Pearson Correlation	.447**	.714**	.528**	1.000
	Sig. (2-tailed)	.001	.000	.000	_:
	N	54	54	54	54_
working climate allows	Pearson Correlation	088	.183	.402**	.239
change	Sig. (2-tailed)	.527	.185	.003	.082
	N	54	54	54	54
adequate knowledge of	Pearson Correlation	042	092	.072	048
process	Sig. (2-tailed)	.764	.509	.607	.731
	N	54	54	54	54

		motivated to re-examine	use fdbk to monitor	resources readily available	can implement change
fdbk can be used for	Pearson Correlation	.342*	.163	.059	.147
self-devel	Sig. (2-tailed)	.012	.243	.672	.293
	N	53	53	53	53
understand methods for	Pearson Correlation	.035	128	.005	142
data collection	Sig. (2-tailed)	.801	.363	.974	.311
	N	53	53	53	53
accurate assess. of leader	Pearson Correlation	.184	.345*	.250	.394**
skills	Sig. (2-tailed)	.188	.011	.071	.004
	N	53	53	53	53
info I rovd was new	Pearson Correlation	.446**	.284*	.180	.212
	Sig. (2-tailed)	.001	.038	.193	.124
	N	54	54	54	54
info rcvd was valuable	Pearson Correlation	.547**	.588**	.163	.488**
	Sig. (2-tailed)	.000	.000	.239	.000
	N	54	54	54	54_
360 motivate to change	Pearson Correlation	.289*	.309*	.289*	.482**
	Sig. (2-tailed)	.034	.023	.034	.000
	N	54	54	54_	54
potential of 360 for army	Pearson Correlation	327*	306*	254	401**
	Sig. (2-tailed)	.016	.025	.064	.003
	N	54	54	54_	54

		working climate allows change	adequate knowledge of process	fdbk can be used for self-devel	understand methods for data collection
RFAIR	Pearson Correlation	,101	077	.216	017
REAIR .	Sig. (2-tailed)	.468	.579	.121	.902
	N	54	54	53	53
D04710	Pearson Correlation	.199	137	.154	174
RSATIS	Sig. (2-tailed)	.149	.325	.270	.214
•	N	54	54	53	53
STRUCT	Pearson Correlation	.238	.146	.131	.050
RTRUST	Sig. (2-tailed)	.086	.297	.355	.724
	N	53	53	52	52
	Pearson Correlation	.167	.179	.463**	.071
RRELEV		.107	.179	.000	.613
	Sig. (2-tailed)		54	53	53
	N O contation	54	073	.065	194
RSUBACC	Pearson Correlation	.277*		.643	.164
	Sig. (2-tailed)	.043	.599		53
	N	54	54	53	.284*
RPACC	Pearson Correlation	041	.116	.244	.039
	Sig. (2-tailed)	.767	.405	.078	
	N	54	54	53	53
RSUPACC	Pearson Correlation	.341*	.009	.081	.146
	Sig. (2-tailed)	.012	.948	.566	.303
	N	53	53	52	52
RSUBAPP	Pearson Correlation	.129	038	.242	.030
	Sig. (2-tailed)	.354	.782	.080	.833
	N	54	54	53	53
peer appropriate	Pearson Correlation	.184	.237	.242	.120
	Sig. (2-tailed)	.183	.085	.081	.391
	N	54	54	53	53
superior appropriate source	Pearson Correlation	.260	.233	.152	.144
	Sig. (2-tailed)	.063	.097	.288	.312
	N	52	52	51	51
motivated to re-examine	Pearson Correlation	088	042	.342*	.035
	Sig. (2-tailed)	.527	.764	.012	.801
	N	54	54	53	53
use fdbk to monitor	Pearson Correlation	.183	092	.163	128
	Sig. (2-tailed)	.185	.509	.243	.363
	N	54	54	53	, 53
resources readily available	Pearson Correlation	.402**	.072	.059	.005
,	Sig. (2-tailed)	.003	.607	.672	.974
	N	54	54	53	53
can implement change	Pearson Correlation	.239	048	.147	142
	Sig. (2-tailed)	.082	.731	.293	.311
	N	54	54	53	53
working climate allows	Pearson Correlation	1.000	.000	118	069
change	Sig. (2-tailed)		1.000	.400	.622
	N	54	54	53	53
adequate knowledge of	Pearson Correlation	.000	1.000	.634**	.488**
process	Sig. (2-tailed)	1.000		.000	.000
	N	54	54	53	53

		working climate allows change	adequate knowledge of process	fdbk can be used for self-devel	understand methods for data collection
fdbk can be used for	Pearson Correlation	118	.634**	1.000	.508*
self-devel	Sig. (2-tailed)	.400	.000	•	.000
	N	53	53	53	52
understand methods for	Pearson Correlation	069	.488**	.508**	1.000
data collection	Sig. (2-tailed)	.622	.000	.000	
	N	53	53	52	53
accurate assess. of leader	Pearson Correlation	.226	191	.099	.007
skills	Sig. (2-tailed)	.103	.170	.486	.961
	N	53	53	52	52
info I rcvd was new	Pearson Correlation	.000	049	.142	.034
ino riora was non	Sig. (2-tailed)	1.000	.723	.311	.809
	N	54	54	53	53
info rcvd was valuable	Pearson Correlation	.147	054	.302*	.066
mio iova wao valazio	Sig. (2-tailed)	.288	.696	.028	.639
	N	54	54	53	53
360 motivate to change	Pearson Correlation	.131	316*	120	087
Oct monvaio to only	Sig. (2-tailed)	.345	.020	.392	.535
	N	54	54	53	53
potential of 360 for army	Pearson Correlation	230	172	380**	068
potential of 550 for army	Sig. (2-tailed)	.095	.214	.005	.626
	N	54	54	53	53

_	······································	accurate assess. of	info I rcvd	info rcvd was
		leader skills	was new	valuable
RFAIR	Pearson Correlation	.671**	.147	.457**
	Sig. (2-tailed)	.000	.289	.001
	N	53	54	54
RSATIS	Pearson Correlation	.772**	.211	.490**
	Sig. (2-tailed)	.000	.126	.000
	N	53	54	54
RTRUST	Pearson Correlation	.169	019	.205
	Sig. (2-tailed)	.231	.895	.141
	N	52	53	53
RRELEV	Pearson Correlation	.541**	.150	.497**
	Sig. (2-tailed)	.000	.280	.000
	N	53	54	54
RSUBACC	Pearson Correlation	.385**	.037	.017
NOOBAGG	Sig. (2-tailed)	.004	.792	.905
	N	53	54	54
RPACC	Pearson Correlation	.381**	.171	.333*
REACC	Sig. (2-tailed)	.005	.216	.014
	N ·	53	54	54
RSUPACC	Pearson Correlation	.261	.058	.310*
RSUFACC	Sig. (2-tailed)	.062	.680	.024
	N	52	53	53
RSUBAPP	Pearson Correlation	.510**	.180	.373**
RSUBAFF	Sig. (2-tailed)	.000	.192	.005
	N	53	54	54
	Pearson Correlation	.483**	.171	.329*
peer appropriate	Sig. (2-tailed)	.000	.218	.015
	N	53	54	54
ion convenieto cource	Pearson Correlation	.394**		.230
superior appropriate source	Sig. (2-tailed)	.004	.791	.101
	N	51	52	52
motivated to re-examine	Pearson Correlation	.184	.446**	.547**
motivated to re-examine	Sig. (2-tailed)	.188	.001	.000
	N	53	54	54
fully to manitor	Pearson Correlation	.345*	.284*	.588**
use fdbk to monitor	Sig. (2-tailed)	.011	.038	.000
	N	53	54	54
19	Pearson Correlation	.250	.180	.163
resources readily available		.071	.193	.239
	Sig. (2-tailed)	53	54	54
1	N Pearson Correlation	.394**	.212	.488**
can implement change		.004	.124	.000
	Sig. (2-tailed)	53	54	54
	N Correlation	.226	.000	.147
working climate allows	Pearson Correlation		1.000	.288
change	Sig. (2-tailed)	.103	54	.288
	N Correlation	53	049	054
adequate knowledge of	Pearson Correlation	191		.696
process	Sig. (2-tailed)	.170	.723 54	.090
	N	53	54	J-7

		accurate assess. of leader skills	info I rcvd was new	info rcvd was valuable
fdbk can be used for	Pearson Correlation	.099	.142	.302*
self-devel	Sig. (2-tailed)	.486	.311	.028
	N ,	52	53	53
understand methods for	Pearson Correlation	.007	.034	.066
data collection	Sig. (2-tailed)	.961	.809	.639
	N	52	53	53
accurate assess. of leader	Pearson Correlation	1.000	.094	.495**
skills	Sig. (2-tailed)		.501	.000
	N	53	53	53
info I rcvd was new	Pearson Correlation	.094	1.000	.361**
1	Sig. (2-tailed)	.501		.007
	N	53	54	54
info rcvd was valuable	Pearson Correlation	.495**	.361**	1.000
	Sig. (2-tailed)	.000	.007	
	N	53	54	54
360 motivate to change	Pearson Correlation	.276*	.479**	.254
•	Sig. (2-tailed)	.046	.000	.064
	N	53	54	54
potential of 360 for army	Pearson Correlation	543**	051	485**
•	Sig. (2-tailed)	.000	.715	.000
	N	53	54	54

		360	potential of
,		motivate to	360 for
DELL'S	-5	change	army
RFAIR	Pearson Correlation	.284*	542**
1	Sig. (2-tailed)	.037	.000
	N	54	54
RSATIS	Pearson Correlation	.317*	660**
	Sig. (2-tailed)	.020	.000
	N	54	54
RTRUST	Pearson Correlation	.170	296*
	Sig. (2-tailed)	.224	.031
	N .	53	53
RRELEV	Pearson Correlation	.161	564**
	Sig. (2-tailed)	.246	.000
	N	54	54
RSUBACC	Pearson Correlation	.113	385**
	Sig. (2-tailed)	.415	.004
	N	54	54
RPACC	Pearson Correlation	.325*	335*
	Sig. (2-tailed)	.017	.013
	N	54	54
RSUPACC	Pearson Correlation	.158	183
	Sig. (2-tailed)	.258	.191
	N	53	53
RSUBAPP	Pearson Correlation	.150	585**
	Sig. (2-tailed)	.279	.000
	N O	54	54
peer appropriate	Pearson Correlation	.244	486**
	Sig. (2-tailed)	.076	.000
	N Decree Completion	54	54
superior appropriate source	Pearson Correlation	.095	477**
	Sig. (2-tailed)	.504	.000
	N Baaraan Correlation	52	52
motivated to re-examine	Pearson Correlation	.289*	327*
	Sig. (2-tailed)	.034	.016
una felhir ta manita-	N Pearson Correlation	54 300*	54
use fdbk to monitor	Pearson Correlation	.309*	306*
	Sig. (2-tailed) N	.023 54	.025 54
recourage readily evallable	N Pearson Correlation	.289*	254
resources readily available	Sig. (2-tailed)	.034	.064
	Sig. (2-tailed)	.034	.064
can implement change	Pearson Correlation	.482**	401**
can implement change	Sig. (2-tailed)	.000	.003
	N Sig. (2-tailed)	.000	.003
working climate allows	Pearson Correlation	.131	230
change	Sig. (2-tailed)	.131	.095
	N (z-tailed)	.345	.095
adequate knowledge of	Pearson Correlation	316*	172
process	Sig. (2-tailed)	.020	.214
	N (2-tailed)	.020	.214
	(V	54	54

Ì		360	potential of
		motivate to	360 for
		change	army
fdbk can be used for	Pearson Correlation	120	380**
self-devel	Sig. (2-tailed)	.392	.005
	N	53	53
understand methods for	Pearson Correlation	087	068
data collection	Sig. (2-tailed)	.535	.626
	N	53	53
accurate assess. of leader	Pearson Correlation	.276*	543**
skills	Sig. (2-tailed)	.046	.000
	N	53	53
info I rcvd was new	Pearson Correlation	.479**	051
	Sig. (2-tailed)	.000	.715
	N	54	54
info rcvd was valuable	Pearson Correlation	.254	485**
	Sig. (2-tailed)	.064	.000
	N	54	54
360 motivate to change	Pearson Correlation	1.000	065
	Sig. (2-tailed)		.642
	N	54	54
potential of 360 for army	Pearson Correlation	065	1.000
	Sig. (2-tailed)	.642	.
	N	54	54

^{**.} Correlation is significant at the 0.01 level (2-tailed).

Processed by U.S. Army Research Institute for the Behavioral and Social Sciences at Fort Leavenworth. Dr. Stanly Halpin, Chief

^{*.} Correlation is significant at the 0.05 level (2-tailed).